



File Code: 3410 (NA-04-20)
Date: July 29, 2004

Subject: 2004 Hemlock Woolly Adelgid Survey Results

To: Kevin Elliott, Forest Supervisor
Allegheny National Forest

During late May and early June of this year, Kevin Wiltsie, Mike Williams, and Tom Hebda of the Allegheny National Forest conducted a survey of 92 hemlock stands throughout the Allegheny National Forest. We are glad to report that no hemlock woolly adelgid was found in any of the stands sampled. The accompanying map and table provides general information and the locations of the sampled stands.

The hemlock woolly adelgid, *Adelges tsugae* (HWA), was introduced into the Eastern United States from Asia in the early 1950s near Richmond, Virginia. The adelgid was present on some exotic tree species that a private collector planted in his arboretum. The distribution of the HWA remained localized for the next decade. Since the 1960s the population has spread throughout the Northeastern United States. In 2003, HWA was reported in Clinton and Centre Counties approximately 40 miles from the Allegheny National Forest. The impact of HWA on the host species, eastern hemlock (*Tsuga canadensis*), is severe. Significant tree mortality usually occurs within 4 to 7 years after infestation. This insect pest not only threatens the hemlock resource but also the unique ecosystem it helps to comprise.

This sampling plan was created using Allegheny National Forest stand data. Only stands defined as "hemlock" were selected and a subset of those stands with road or trail access was surveyed.

The purpose of this survey was:

- To detect if HWA was present on the Allegheny National Forest.
- To provide a minimum detection threshold whereby HWA can be detected with 75 percent reliability in hemlock stands where at least 2 percent of the trees are infested.
- To make an efficient determination of the percentage of trees infested within a stand at the 0.25 precision level.

Even though HWA has not yet been found on the forest, it is important that field-going personnel continue to monitor for evidence of HWA in their areas and report this information to the Morgantown Field Office. As part of our continuing monitoring efforts, we plan to revisit a subset of this year's sites that have the highest likelihood of becoming infested. These areas will include campgrounds, trailheads, and other highly visited areas.



I personally would also like to extend my appreciation to Kevin, Mike, and Tom for their valuable assistance in this survey. If you or any of your staff have any questions or comments regarding this survey, please contact Richard Turcotte at (304) 285-1544.

Sincerely,

JOHN W. HAZEL
Field Representative
Morgantown Field Office

Cc: District Ranger, Bradford RD
District Ranger, Marienville/Ridgeway RD
Bob White, Forest Silviculturist

RMT/AKS

Table 1. Allegheny National Forest hemlock stand survey information, May 21 to June 10, 2004.

STAND	COMPARTMENT	DISTRICT	ACCESS	HWA*	LOCATION
2	605	Marienville	Yes	None Found	SR62
1	610	Marienville	Yes	None Found	SR666
15	610	Marienville	Yes	None Found	SR666
6	614	Marienville	Yes	None Found	SR666
37	644	Marienville	Yes	None Found	Snowmobile Connector# 9
17	652	Marienville	Yes	None Found	Snowmobile Connector#9
28	681	Marienville	Yes	None Found	Snowmobile Connector#14
33	681	Marienville	Yes	None Found	Kelly Pines Campground
20	685	Marienville	Yes	None Found	Mville Connector
3	686	Marienville	Yes	None Found	SR1003
22	686	Marienville	Yes	None Found	Mville Connector
24	686	Marienville	Yes	None Found	Mville Connector
26	686	Marienville	Yes	None Found	Mville Connector
33	686	Marienville	Yes	None Found	Mville Connector
15	697	Marienville	Yes	None Found	Snowmobile Connector#14
42	820	Marienville	Yes	None Found	SR6a
51	820	Marienville	Yes	None Found	SR6a
27	824	Marienville	Yes	None Found	North Country Scenic Trail
20	832	Marienville	Yes	None Found	Twin Lakes
23	832	Marienville	Yes	None Found	Twin Lakes
32	845	Marienville	Yes	None Found	SR948s
22	846	Marienville	Yes	None Found	SR948s
8	849	Marienville	Yes	None Found	Twin Lakes Hiking/SR66
14	879	Marienville	Yes	None Found	Timberline ATV
34	889	Marienville	Yes	None Found	Timberline ATV
36	889	Marienville	Yes	None Found	Timberline ATV
85	906	Marienville	Yes	None Found	SR3002
48	907	Marienville	Yes	None Found	ESP307
69	908	Marienville	Yes	None Found	ESP307
59	909	Marienville	Yes	None Found	Laurel Mill
1	669	Marienville	Yes	None Found	Lolita Campground
2	206	Bradford	Yes	None Found	Rocky Gap ATV
3	206	Bradford	Yes	None Found	Rocky Gap ATV
11	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
16	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
31	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
43	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
44	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
46	209	Bradford	Yes	None Found	Allegheny Snowmobile Trail at SR6
1	222	Bradford	Yes	None Found	SR3005
13	223	Bradford	Yes	None Found	Buchers Mills
18	224	Bradford	Yes	None Found	Buchers Mills
36	229	Bradford	Yes	None Found	Buchers Mills
47	230	Bradford	yes	None Found	SR2006
44	231	Bradford	Yes	None Found	SR2006
25	256	Bradford	Yes	None Found	Fish Hatchery
2	278	Bradford	Yes	None Found	Hearts Content
18	278	Bradford	Yes	None Found	Hearts Content
20	281	Bradford	Yes	None Found	SR82

11	290	Bradford	Yes	None Found	Dunham Siding
23	301	Bradford	Yes	None Found	Barnes
14	302	Bradford	Yes	None Found	Henrys Mills
27	302	Bradford	Yes	None Found	Henrys Mills
1	307	Bradford	Yes	None Found	Twin Lakes Hiking/NCST
19	310	Bradford	Yes	None Found	SR948n
32	310	Bradford	Yes	None Found	SR948n
1	327	Bradford	Yes	None Found	Hickory Creek Wilderness
2	327	Bradford	Yes	None Found	Hickory Creek Wilderness
3	327	Bradford	Yes	None Found	Hickory Creek Wilderness
11	327	Bradford	Yes	None Found	Hickory Creek Wilderness
13	327	Bradford	Yes	None Found	Hickory Creek Wilderness
22	327	Bradford	Yes	None Found	Hickory Creek Wilderness
23	327	Bradford	Yes	None Found	Hickory Creek Wilderness
39	327	Bradford	Yes	None Found	Hickory Creek Wilderness
40	327	Bradford	Yes	None Found	Hickory Creek Wilderness
41	327	Bradford	Yes	None Found	Hickory Creek Wilderness
44	327	Bradford	Yes	None Found	Hickory Creek Wilderness
52	327	Bradford	Yes	None Found	Hickory Creek Wilderness
1	334	Bradford	Yes	None Found	Hickory Creek Wilderness
7	349	Bradford	Yes	None Found	SR666
1	350	Bradford	Yes	None Found	SR666
2	353	Bradford	Yes	None Found	North Country National Scenic Trail
11	353	Bradford	Yes	None Found	North Country National Scenic Trail
12	353	Bradford	Yes	None Found	North Country National Scenic Trail
30	354	Bradford	Yes	None Found	North Country National Scenic Trail
21	426	Bradford	Yes	None Found	SR346
8	431	Bradford	Yes	None Found	SR321n
38	438	Bradford	Yes	None Found	Allegheny Snowmobile Trail
23	440	Bradford	Yes	None Found	Allegheny Snowmobile Trail
45	440	Bradford	Yes	None Found	Allegheny Snowmobile Trail
12	444	Bradford	Yes	None Found	SR321n
40	444	Bradford	Yes	None Found	SR321n
3	445	Bradford	Yes	None Found	SR321n
63	454	Bradford	Yes	None Found	SR321
26	461	Bradford	Yes	None Found	Westline
51	476	Bradford	Yes	None Found	Longhouse Trail
21	478	Bradford	Yes	None Found	Westline
31	490	Bradford	Yes	None Found	Snowmobile Connector

*HWA: Hemlock Woolly Adelgid